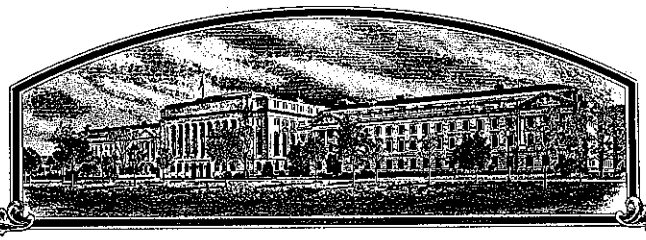

No. 9100210

THE UNITED STATES OF AMERICA

TO ALL TO WHOM THESE PRESENTS SHALL COME:

S and W Seed Company

Whereas, THERE HAS BEEN PRESENTED TO THE

Secretary of Agriculture

AN APPLICATION REQUESTING A CERTIFICATE OF PROTECTION FOR AN ALLEGED NOVEL VARIETY OF SEXUALLY REPRODUCED PLANT, THE NAME AND DESCRIPTION OF WHICH ARE CONTAINED IN THE APPLICATION AND EXHIBITS, A COPY OF WHICH IS HEREUNTO ANNEXED AND MADE A PART HEREOF, AND THE VARIOUS REQUIREMENTS OF LAW IN SUCH CASES MADE AND PROVIDED HAVE BEEN COMPLIED WITH, AND THE TITLE THERETO IS, FROM THE RECORDS OF THE PLANT VARIETY PROTECTION OFFICE, IN THE APPLICANT(S) INDICATED IN THE SAID COPY, AND WHEREAS, UPON DUE EXAMINATION MADE, THE SAID APPLICANT(S) IS (ARE) ADJUDGED TO BE ENTITLED TO A CERTIFICATE OF PLANT VARIETY PROTECTION UNDER THE LAW.

NOW, THEREFORE, THIS CERTIFICATE OF PLANT VARIETY PROTECTION IS TO GRANT UNTO THE SAID APPLICANT(S) AND THE SUCCESSORS, HEIRS OR ASSIGNS OF THE SAID APPLICANT(S) FOR THE TERM OF eighteen YEARS FROM THE DATE OF THIS GRANT, SUBJECT TO THE PAYMENT OF THE REQUIRED FEES AND PERIODIC REPLENISHMENT OF VIABLE BASIC SEED OF THE VARIETY IN A PUBLIC REPOSITORY AS PROVIDED BY LAW, THE RIGHT TO EXCLUDE OTHERS FROM SELLING THE VARIETY, OR OFFERING IT FOR SALE, OR REPRODUCING IT, IMPORTING IT, OR EXPORTING IT, OR USING IT IN PRODUCING A HYBRID OR DIFFERENT TY THEREFROM, TO THE EXTENT PROVIDED BY THE PLANT VARIETY PROTECTION ACT 1542, AS AMENDED, 7 U.S.C. 2321 ET SEQ.)

ALFALFA

'SW 14'

In Testimony Whereof, *I have hereunto set my hand and caused the seal of the* Plant Variety Protection Office *to be affixed at the City of* Washington, D.C. *this* 30th *day of* September *in the year of our Lord one thousand nine hundred and* ninety-three.

Attest:

Kenneth B. Evans

Commissioner
Plant Variety Protection Office
Agricultural Marketing Service

Mike Espy

Secretary of Agriculture

FORM APPROVED: OMB 0581-0055, Expires 1/31/91

U.S. DEPARTMENT OF AGRICULTURE
AGRICULTURAL MARKETING SERVICE

APPLICATION FOR PLANT VARIETY PROTECTION CERTIFICATE

(Instructions on reverse)

Application is required in order to determine if a plant variety protection certificate is to be issued (7 U.S.C. 2421). Information is held confidential until certificate is issued (7 U.S.C. 2426).

1. NAME OF APPLICANT(S) *(as it is to appear on the Certificate)*
S and W Seed Company

2. TEMPORARY DESIGNATION OR EXPERIMENTAL NO.
SW 14

3. VARIETY NAME
AAA 9Apr1993
S W 14

4. ADDRESS *(street and no. or R.F.D. no., city, state, and ZIP)*
P. O. Box 235
Five Points, CA.93624

5. PHONE *(Include area code)*
(209)8842535

FOR OFFICIAL USE ONLY

PVPO NUMBER
9100210

FILING
Date: July 8 1991
Time: ☐ A.M. ☑ P.M.

FEES RECEIVED
Filing and Examination Fee: $ 2150.-
Date: July 8, 1991
Certificate Fee: $ 250.00
Date: Sept. 16, 1993

6. GENUS AND SPECIES NAME
Medicago sativa L.

7. FAMILY NAME *(Botanical)*
Leguminosae

8. CROP KIND NAME *(Common Name)*
Alfalfa

9. DATE OF DETERMINATION
May 1 1991

10. IF THE APPLICANT NAMED IS NOT A "PERSON," GIVE FORM OF ORGANIZATION *(Corporation, partnership, association, etc.)*
Partnership

11. IF INCORPORATED, GIVE STATE OF INCORPORATION
------

12. DATE OF INCORPORATION
-----

13. NAME AND ADDRESS OF APPLICANT REPRESENTATIVE(S), IF ANY, TO SERVE IN THIS APPLICATION AND RECEIVE ALL PAPERS
Mr. Jim Kautz
Kautz Agronomic Services
12899 Ave. 336
Visalia CA. 93291
(209) 733 3760
PHONE *(Include area code)*:

14. CHECK APPROPRIATE BOX FOR EACH ATTACHMENT SUBMITTED *(Follow INSTRUCTIONS on reverse)*

a. ☒ Exhibit A, Origin and Breeding History of the Variety.
b. ☒ Exhibit B, Novelty Statement.
c. ☒ Exhibit C, Objective Description of Variety.
d. ☐ Exhibit D, Additional Description of Variety.
e. ☒ Exhibit E, Statement of the Basis of Applicant's Ownership.
f. ☒ Seed Sample (2,500 viable untreated seeds). Date Seed Sample mailed to Plant Variety Protection Office _____
g. ☒ Filing and Examination Fee ($2,150) made payable to "Treasurer of the United States."

15. DOES THE APPLICANT(S) SPECIFY THAT SEED OF THIS VARIETY BE SOLD BY VARIETY NAME ONLY AS A CLASS OF CERTIFIED SEED? *(See section 83(a) of the Plant Variety Protection Act.)*
☐ YES *(If "YES," answer items 16 and 17 below)* ☒ NO *(If "NO," skip to item 18 below)* per letter AAA 16Sept1993

16. DOES THE APPLICANT(S) SPECIFY THAT THIS VARIETY BE LIMITED AS TO NUMBER OF GENERATIONS?
☒ YES ☐ NO

17. IF "YES" TO ITEM 16, WHICH CLASSES OF PRODUCTION BEYOND BREEDER SEED?
☒ FOUNDATION ☐ REGISTERED ☒ CERTIFIED

18. DID THE APPLICANT(S) PREVIOUSLY FILE FOR PROTECTION OF THE VARIETY IN THE U.S.?
☐ YES *(If "YES," through* ☐ Plant Variety Protection Act ☐ Patent Act. Give date: _____ .)
☒ NO

19. HAS THE VARIETY BEEN RELEASED, USED, OFFERED FOR SALE, OR MARKETED IN THE U.S. OR OTHER COUNTRIES?
☐ YES (If "YES," give names of countries and dates)
☒ NO

20. The applicant(s) declare(s) that a viable sample of basic seeds of this variety will be furnished with the application and will be replenished upon request in accordance with such regulations as may be applicable.

The undersigned applicant(s) is (are) the owner(s) of this sexually reproduced novel plant variety, and believe(s) that the variety is distinct, uniform, and stable as required in section 41, and is entitled to protection under the provisions of section 42 of the Plant Variety Protection Act.

Applicant(s) is (are) informed that false representation herein can jeopardize protection and result in penalties.

SIGNATURE OF APPLICANT *[Owner(s)]*	CAPACITY OR TITLE	DATE
Harry B Hansen	General Manager/Partner	June 6, 1991
SIGNATURE OF APPLICANT *[Owner(s)]*	CAPACITY OR TITLE	DATE
Donald W. McCollister	General Manager/Partner	June 6, 1991

EXHIBIT A

ORIGIN AND BREEDING HISTORY OF SW 14

SW 14 is a 77 clone synthetic variety selected and developed from a cross of two populations, 1SC88 (CUF 101 plant selections) and 1SUCC88 (U.C. Cibola plant selections). Criteria of plant selection was based upon plant vigor and resistance to aphids and persistence to diseases at Mendota and Tranquility, California. Selections trace to CUF 101 and U.C. Cibola, all of which originated from seed production fields five (5) and three (3) years old respectively. The estimated germplasm sources are as follows: African - 60%, Indian - 20%, Turkistan - 12%, Chilean - 4%, Lodak - 1%, M. varia - 1%, Flemish - 1% and Peruvian - 1%. Breeder seed, (SYN. 1) was produced under cage isolation at Five Points, California in 1988.

TYPE AND FREQUENCY OF VARIANTS

No variants are recognized beyond the limits provided in Exhibit C.

EVIDENCE OF UNIFORMITY AND STABILITY

SW 14 is stable in all distinguishing characteristics when seed is produced within the area of adaptation. SW 14 is as uniform as other alfalfa varieties which are currently accepted for certification by state seed certifying agencies.

EXHIBIT B

NOVELTY STATEMENT FOR SW 14

SW 14 is a very non-dormant alfalfa variety which is distinguished from other varieties in the same dormancy class by unique characteristics as related to growth factors and major resistance to insect pests and diseases.

SW 14 is most similar to CUF 101 in crown type and range of adaptation. The fall growth of SW 14 is not as tall as CUF 101 when compared at Bakersfield, California (Table 1) SW 14 is most similar to U.C. Cibola in fall dormancy and growth patterns. The overall disease and insect resistance of SW 14 is most similar to U.C. Cibola. SW 14 and U.C. Cibola have levels of resistance to Spotted Alfalfa Aphid, Pea Aphid, Blue Alfalfa Aphid, Phytophthora root rot and fusarium wilt. Stand persistence is most similar to U.C. Cibola when compared at Bakersfield, California (Table 2).

FORM APPROVED: OMB NO. 0581-00

EXHIBIT (Alfal

U.S. DEPARTMENT OF AGRICULTURE
AGRICULTURAL MARKETING SERVICE
COMMODITIES SCIENTIFIC SUPPORT DIVISION
BELTSVILLE, MARYLAND 20705

OBJECTIVE DESCRIPTION OF VARIETY
ALFALFA (*Medicago sativa* sensu Gunn et al.)

NAME OF APPLICANT(S)	TEMPORARY DESIGNATION	VARIETY NAME
S and W Seed Company	SW 14	SW 14

ADDRESS (*Street and No., or R.F.D. No., City, State, and Zip Code*)
P.O. Box 235
Five Points, CA 93624

FOR OFFICIAL USE ONLY
PVPO NUMBER
9100210

PLEASE READ ALL INSTRUCTIONS CAREFULLY: Place numbers in the boxes to designate the expressions which are characteristic of the commerical generations of th application variety. Data for quantitative plant characters should be based on a minimum of 100 plants. Include leading zeros when necessary (e.g., [0][8][9]) for quantitative data. Comparative data should be determined from varieties entered in the same trial. Plant color may be precisely designated by using any recognized color chart, e.g., The Munsell Plant Tissue Color Charts.

1. WINTERHARDINESS:

[1] CLASS:

1 = Very Non-Winterhardy (CUF 101)
2 = Non-Winterhardy (Moapa 69)
3 = Intermediately Non-Winterhardy (Mesilla)
4 = Semi-Winterhardy (Lahontan)
5 = (Du Puits)
6 = Moderately Winterhardy (Saranac)
7 = (Ranger)
8 = Winterhardy (Vernal)
9 = Extremely Winterhardy (Norseman)

TEST LOCATION: Five Points and Visalia, CA

2. FALL DORMANCY:

FALL DORMANCY (DETERMINED FROM SPACED PLANTINGS)

TESTING INSTITUTION AND LOCATION	DATE OF LAST CUT	DATE REGROWTH SCORED	REGROWTH SCORE OR AVERAGE HEIGHT				LSD .05
			APPLICATION VARIETY	CHECK VARIETIES*			
				CUF 101	UC Cibola	Moapa	
Kautz Agronomic Services, Visalia, CA	9/9/90	10/15/90	11.0	12.5	10.75	9.1	1.32

* CUF 101, Moapa 69, Mesilla, Lahontan, Du Puits, Saranac, Ranger, Vernal, or Norseman as appropriate.

Specify scoring system used: _____

[1] Fall Growth Habit (Determined from Fall Dormancy Trials)

1 = Erect (CUF 101)
3 = Semierect (Mesilla)
5 = Intermediate (Saranac)
7 = Semidecumbent (Vernal)
9 = Decumbent (Norseman)

3. RECOVERY AFTER FIRST SPRING CUT (In Southwest, first cut after March 21):

[1]

1 = Very Fast (CUF 101)
3 = Fast (Saranac)
5 = Intermediate (Ranger)
7 = Slow (Vernal)
9 = Very Slow (Norseman)

TEST LOCATION: Visalia, CA

4. AREAS OF ADAPTATION IN U.S. (Where tested and proven adapted):

[4] Primary Area of Adaptation

[ ] [ ] Other Areas of Adaptation

1 = North Central
2 = East Central
3 = Southeast
4 = Southwest
5 = Moderately Winterhardy Intermountain
6 = Winterhardy Intermountain
7 = Great Plains
8 = Other (*Specify*) _____

5. FLOWERING DATE (When 10% of plants possess open flowers at time of first spring cut):

[0][4] Days Earlier Than . . . . . [4]
Same As . . . . . [1]
[-][-] Days Later Than . . . . . [-]

1 = CUF 101
2 = Mesilla
3 = Saranac
4 = Vernal
5 = Norseman

TEST LOCATION: Visalia, CA

4

6. PLANT COLOR (Determined from healthy regrowth 3 weeks after first spring cut, controlling leafhoppers if necessary):

[3] 1 = Very Dark Green (524) 2 = Dark Green (Vernal) 3 = Light Green (Ranger)

COLOR CHART VALUE (Specify chart used): Mansell Color Co. 1977 (Tissue Color Charts)

APPLICATION VARIETY: 5/6 (HUE 7.5 GY)

VERNAL: 4/6

TEST LOCATION: Visalia, CA

7. CROWN TYPE (Determined from spaced plantings):

[3] Noncreeping Types: 1 = Broad (Vernal) 2 = Intermediate (Saranac) 3 = Narrow (CUF 101)

Creeping Types: 4 = Creeping Rooted (Rangelander) 5 = Rhizomatous (Rhizoma)

8. FLOWER COLOR (Determine frequency of plants for each color class as defined by USDA Agricultural Handbook No. 424 (Barnes 1972), allowing all plants in plot to flower):

[100] % Purple and Violet (Subclasses 1.1 to 1.4)

[ ] % Variegated Other Than Blue (Subclasses 2.1, 2.2, 2.5 to 2.9)

[ ] % Cream (Class 3)

[ ] % Blue (Subclasses 2.3 and 2.4)

[ ] % Yellow (Subclasses 4.1 to 4.4)

[ ] % White (Class 5)

TEST LOCATION: Mendota, CA

9. POD SHAPE (Determine frequency of plants with the following pod shapes produced on well cross-pollinated racemes):

[90] % Tightly Coiled (One or more coils, center more or less closed)

[10] % Loosely Coiled (One or more coils, center conspicuously open)

[ ] % Sickle (Less than 1 coil)

TEST LOCATION: Mendota, CA

10. PEST RESISTANCE: Provide in the appropriate column, trial data for application variety, and resistant (R) and susceptible (S) check varieties, synthetic generation tested, average severity index scores (ASI), least significant difference statistics (LSD .05), the institution in charge of test, year, and location of test, and whether test is a field or laboratory evaluation. Describe scoring system, and any test procedure which differs from standard methods proposed by Elgin (1982). Trial data from other test years or locations should be presented whenever available on a separate document as Exhibit D.
Seeds of the check varieties and germplasm lines listed below can be obtained from the USDA Field Crops Laboratory, Bldg. 001, Rm. 335, BARC-West, Beltsville, MD 20705. Although comparisons with check varieties listed below are preferred, comparisons with any appropriate check variety recommended by Elgin (1982) may be presented.

A. DISEASE RESISTANCE: DISEASE	VARIETY	SYN. GEN. TESTED	PERCENT RESISTANT PLANTS	NUMBER OF PLANTS TESTED	ASI	ASI LSD .05	INSTITUTION, YEAR, LOCATION, FIELD OR LABORATORY
Anthracnose, Race 1 *(Colletotrichum trifolii)*	Application	SYN 2	-0-	143	5.0	LSD (.05)	Crop Characteristi
	Arc (R) Saranac AR (R)		55	121	3.0	0.38	Northfield, MN
	Saranac (S)		-0-	130	5.0		
	SCORING SYSTEM: Plants scored 1 or 2 with no symptoms = Resistant						
Anthracnose, Race 2 *(Collectotrichum trifolii)*	Application						
	Saranac AR (R)						
	Arc (S)						
	SCORING SYSTEM:						
Bacterial Wilt *(Corynebacterium insidiosum)*	Application	SYN 2	5.38		3.85	LSD (0.5)	D.K. Barnes,
	Vernal (R)		42.0		2.25	0.41	University of MN
	Narragansett (S)		8.32		3.85		
	SCORING SYSTEM: Plants scored 0-5 (0=1) = Resistant						
Common Leafspot *(Pseudopeziza medicaginis)*	Application						
	MSA-CW3AN3 (R)						
	Ranger (S)						
	SCORING SYSTEM:						

10. A. PEST RESISTANCE (Continued):

DISEASE	VARIETY	SYN. GEN. TESTED	PERCENT RESISTANT PLANTS	NUMBER OF PLANTS TESTED	ASI	ASI LSD .05	INSTITUTION, YEAR, LOCATION FIELD OR LABORATORY
Downy Mildew *(Peronospora trifoliorum)*	Application						
Isolate, if known:	Saranac (R)						
	Kanza (S)						
	SCORING SYSTEM:						
Fusarium Wilt *(Fusarium oxysporum f. medicaginis)*	Application	SYN 2	70.44		1.75	LSD (0.5)	D.K. Barnes
	Moapa 69 (R)		76.66		1.56	14.08	University of MN
	Narragansett (R)						
	SCORING SYSTEM: Plants scored 0-5 (0 + 1) = Resistant						
Phytophthora Root Rot *(Phytophthora megasperma f. medicaginis)*	Application	SYN 2	16.13		4.32	LSD (0.5)	
	Agate (R)		43		3.29	15.97	
	Saranac (S)		1.74		5.28		
	SCORING SYSTEM: Plants scored 1-5 (1 + 2) = Resistant						
Verticillium Wilt *(Verticillium alboatrum)*	Application						
	Vertus (R)						
	Saranac (S)						
	SCORING SYSTEM:						
Other *(Specify)*	Application						
	(R)						
	(S)						
	SCORING SYSTEM:						
Other *(Specify)*	Application						
	(R)						
	(S)						
	SCORING SYSTEM:						

B. INSECT RESISTANCE:

INSECT	VARIETY	SYN. GEN. TESTED	PERCENT DEFOLIATION	DEFOLIATION IN PERCENT OF RESISTANT CHECK	ASI	ASI LSD .05	INSTITUTION, YEAR, LOCATION FIELD OR LABORATORY
Alfalfa Weevil *(Hypera postica)*	Application						
	Arc (R)			100			
	Saranac (S)						
	SCORING SYSTEM:						

10. B. INSECT RESISTANCE (Continued):

INSECT	VARIETY	SYN. GEN. TESTED	PERCENT SEEDLING SURVIVAL	NUMBER OF SEEDLINGS TESTED	ASI	ASI LSD .05	INSTITUTION, YEAR, LOCATION, FIELD OR LABORATORY
Blue Alfalfa Aphid *(Acyrthosiphon kondoi)*	Application	SYN 2	25.71		3.99	LSD (0.5)	John Caddell
	CUF 101 (R)		45.00		3.70	8.42	Oklahoma State Uni
	~~PA-1 (S)~~ ARC (s)		3.81		4.3		
	SCORING SYSTEM: Percent resistant plants = total of classes 1,2,& 3 1-5						
Pea Aphid *(Acyrthosiphon pisum)*	Application	SYN 2	84	178		LSD (0.5)	Crop Characteristic
	~~Kanza (R)~~ CUF 101		83	162		0.53	Northfield, MN
	Ranger (S)		4	173			
	SCORING SYSTEM: Resistance classes, 1-5, 1-4 = Resistant						
Spotted Alfalfa Aphid *(Therioaphis maculata)*	Application	SYN 2	24.99			LSD (.05)	John Caddell
Biotype, if known: Southern	Kanza (R)		70.00			10.55	Oklahoma State Uni
San Joaquin	~~Ranger (S)~~ TEAM (s)		0.42				
Valley Biotype	SCORING SYSTEM: Percent of surviving seedlings						

INSECT	VARIETY	SYN. GEN. TESTED	PERCENT RESISTANT PLANTS	NUMBER OF PLANTS TESTED	ASI	ASI LSD .05	INSTITUTION, YEAR, LOCATION, FIELD OR LABORATORY
Potato Leafhopper Yellowing *(Empoasca fabae)*	Application						
	MSA-CW3An3 (R)						
	Ranger (S)						
	SCORING SYSTEM:						
Other *(Specify)*	Application						
	(R)						
	(S)						
	SCORING SYSTEM:						

C. NEMATODE RESISTANCE:

NEMATODE	VARIETY	SYN. GEN. TESTED	PERCENT RESISTANT PLANTS	NUMBER OF PLANTS TESTED	ASI	ASI LSD .05	INSTITUTION, YEAR, LOCATION, FIELD OR LABORATORY
Northern Root Knot *(Meloidogyne hapla)*	Application						
	Nev. Syn. XX (R)						
	Lahontan (S)						
	SCORING SYSTEM:						

10. E. NEMATODE RESISTANCE (Continued):

NEMATODE	VARIETY	SYN. GEN. TESTED	PERCENT RESISTANT PLANTS	NUMBER OF PLANTS TESTED	ASI	ASI LSD .05	INSTITUTION, YEAR, LOCATION, FIELD OR LABORATORY
Southern Root Knot *(Meloidogyne incognita)*	Application						
	Moapa 69 (R)						
	Lahontan (S)						
	SCORING SYSTEM:						
Stem Nematode *(Ditylenchus dipsaci)*	Application						
	Lahontan (R)						
	Ranger (S)						
	SCORING SYSTEM:						
Other *(Specify)* _____	Application						
_____	(R)						
_____	(S)						
	SCORING SYSTEM:						

11. INDICATE THE VARIETY THAT MOST CLOSELY RESEMBLES THE APPLICATION VARIETY FOR EACH OF THE FOLLOWING CHARACTERS:

CHARACTER	VARIETY	CHARACTER	VARIETY
Winterhardiness	CUF 101	Plant Color	CUF 101
Recovery After 1st Cut	CUF 101	Crown Type	CUF 101
Area of Adaptation	CUF 101	Combined Disease Resistance	UC Cibola
Flowering Date	CUF 101	Combined Insect Resistance	UC Cibola

REFERENCES

Barnes, D.K. 1972. A System for Visually Classifying Alfalfa Flower Color. U.S. Dep. Agric. Handb. 424. 18 pp. (Note: Greenish cast of plate 6, A and B is an artifact of printing, actual colors a blend of yellow and white.)

Elgin, J.H., Jr., (ed.). 1982. Standard Tests to Characterize Pest Resistance in Alfalfa Cultivars. U.S. Dep. Agric. Tech. Bull. (In Press).

Gunn, C.R., W.H. Skrdla, and H.C. Spencer. 1978. Classification of Medicago sativa L. using legume characters and flower colors. U.S. Dep. Agric. Tech. Bull. 1574. 84 pp.

Munsell Color Co. 1977. Munsell Plant Tissue Color Charts. Munsell Color Co., Inc. Baltimore.

NOTE: Any additional descriptive information and supporting documentation may be provided as Exhibit D.

TABLE 1 - FALL HEIGHT MEASUREMENT (INCHES)

VARIETY	BAKERSFIELD, CA.
SW 14	11.00
CUF 101	12.50
UC Cibola	10.75
LSD (.05)	1.32

TABLE 2 - STAND PERSISTENCE, BAKERSFIELD, CA.

VARIETY	SEEDED 11/88 % STAND 5/89	9/90
SW 14	100	78
CUF 101	100	65
UC Cibola	100	75
LSD (.05)	11.17	

EXHIBIT D

CHARACTERISTICS OF SW 14

SW 14 is a very non-dormant variety developed for forage use in region 4 where winter injury is not a major varietal characteristic. It is similar to U.C. Cibola in fall growth, and most similar in appearance to CUF 101. SW 14 has high resistance to pea aphid and fusarium wilt; moderate resistance to Blue Alfalfa Aphid and Spotted Alfalfa Aphid, and low resistance to phytophthora root rot. It is susceptible to bacterial wilt and anthracnose.

EXHIBIT E

The alfalfa variety SW 14 was developed by S and W Seed Co.; a partnership, and Kautz Agronomic Services. By agreement between S and W. Seed Co. and Kautz Agronomic Services, all rights to varieties developed in the breeding program belong to S and W Seed Co. none are retained by employees or the contractual breeding services of Kautz Agronomic Services.